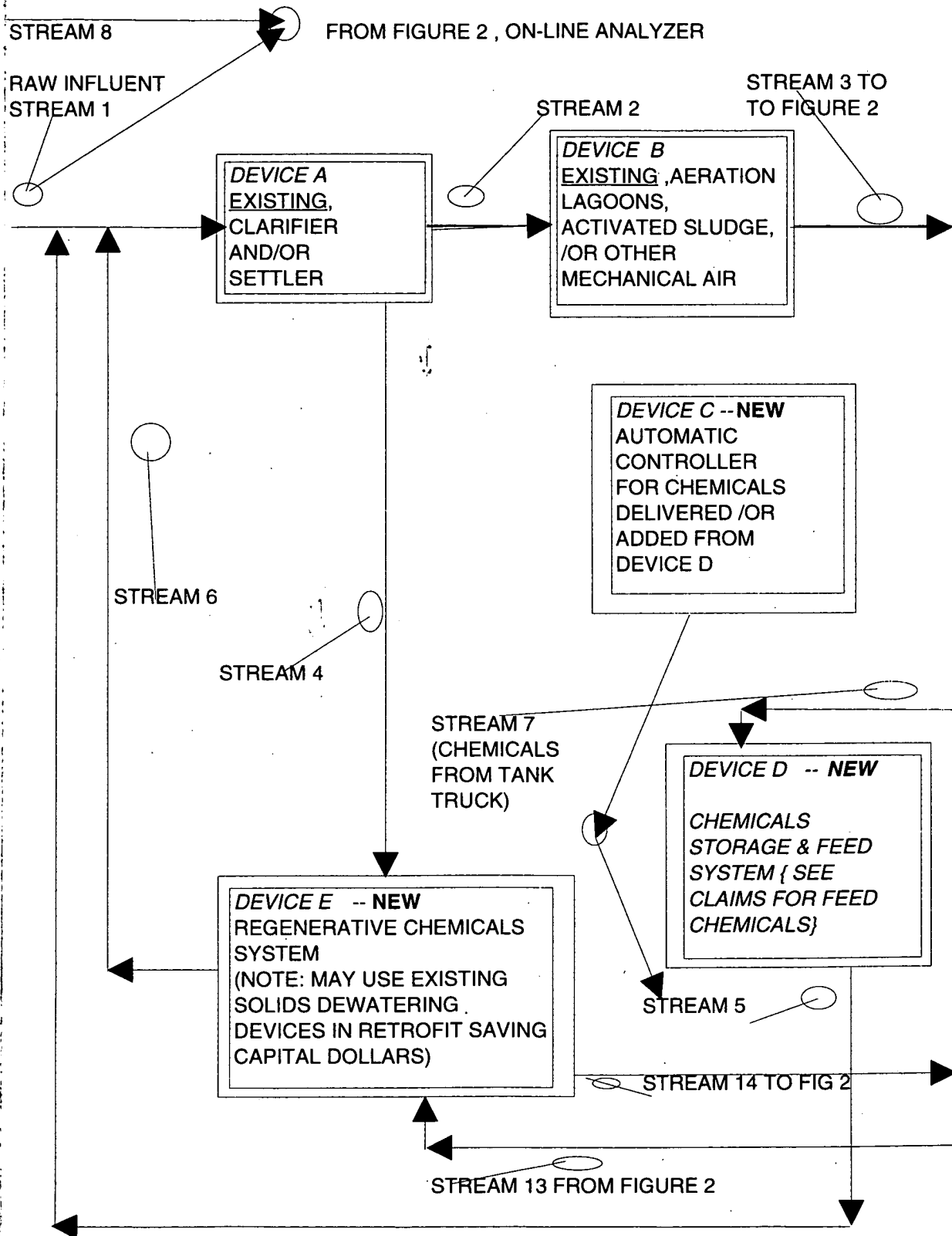


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FIGURE 1

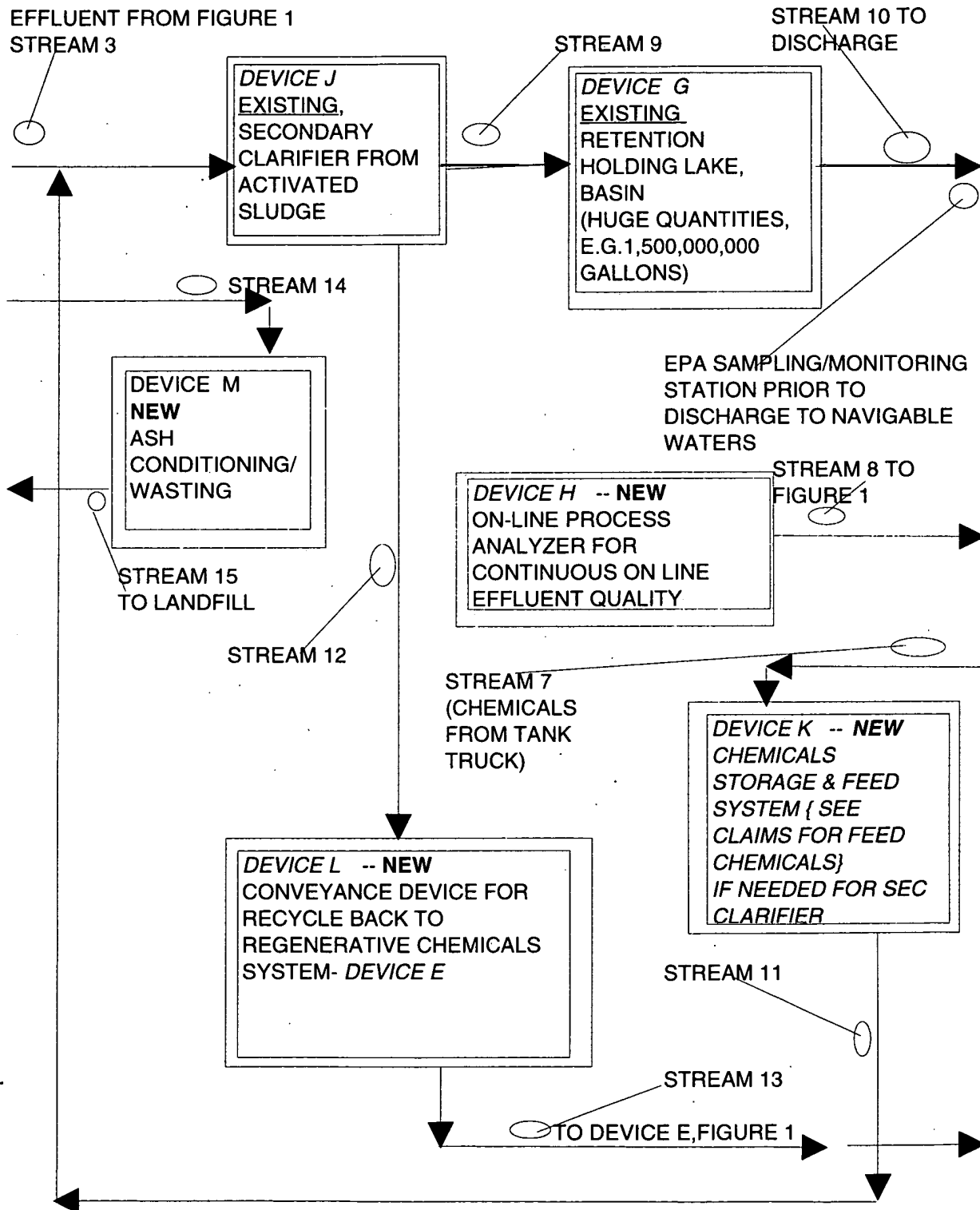
FLOW DIAGRAM TOXICS, ORGANICS, AND COLOR REMOVAL
TECHNOLOGY PROCESS/OR METHOD FOR TOXICS, ORGANICS,
COLOR REDUCTION OF ALL PULP/PAPER MILLS' WASTEWATERS



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FIGURE 2

FLOW DIAGRAM TOXICS, ORGANICS, AND COLOR REMOVAL
TECHNOLOGY PROCESS/OR METHOD FOR TOXICS, ORGANICS,
COLOR REDUCTION OF ALL PULP/PAPER MILLS' WASTEWATERS



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FIGURE 3

EFFLUENT POLLUTANT QUALITY COMPARISON OF **NEW** TOXICS, ORGANICS
AND COLOR REMOVAL PROCESS FOR PULP/PAPER MILLS' WASTEWATERS
VS. OLD ART

CONCENTRATIONS ARE IN MGM/LITER

POLLUTANT	OLD ART	NEW
BOD5	250-300	40-65
COD	250-400	40-65
TOC	150-300	40-65
COLOR	1000-4000	100-250

STREAM 3 TO
TO FIGURE 2

RAW INFLUENT
STREAM 1

STREAM 2

DEVICE A
EXISTING,
CLARIFIER
AND/OR
SETTLER

DEVICE B
EXISTING, AERATION
LAGOONS,
ACTIVATED SLUDGE,
/OR OTHER
MECHANICAL AIR

CONCENTRATIONS ARE IN MGM/LITER

POLLUTANT	OLD ART	NEW
BOD5	50-75	40-65
COD	250-400	40-65
TOC	150-300	40-65
COLOR	1000-4000	100-250

STREAM 6

STREAM 4

DEVICE E -- NEW
REGENERATIVE CHEMICALS
SYSTEM
(NOTE: MAY USE EXISTING
SOLIDS DEWATERING
DEVICES IN RETROFIT SAVING
CAPITAL DOLLARS)

STREAM 13 FROM FIGURE 2

DRAWING 3/4

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FIGURE 4

EFFLUENT POLLUTANT QUALITY COMPARISON OF **NEW** TOXICS, ORGANICS
AND COLOR REMOVAL PROCESS FOR PULP/PAPER MILLS' WASTEWATERS
VS. OLD ART

EFFLUENT FROM FIGURE 1
STREAM 3

DEVICE J
EXISTING,
SECONDARY
CLARIFIER FROM
ACTIVATED
SLUDGE

STREAM 9

DEVICE G
EXISTING
RETENTION
HOLDING LAKE,
BASIN
(HUGE QUANTITIES,
E.G. 1,500,000,000
GALLONS)

STREAM 10 TO
DISCHARGE

EPA SAMPLING/MONITORING
STATION PRIOR TO
DISCHARGE TO NAVIGABLE
WATERS

CONCENTRATIONS ARE IN MGM/LITER

POLLUTANT	OLD ART	NEW
BOD5	50-75	40-65
COD	250-400	40-65
TOC	150-300	40-65
COLOR	1000-4000	100-250

CONCENTRATIONS ARE IN MGM/LITER

POLLUTANT	OLD ART	NEW
BOD5	50-75	40-65
COD	250-400	40-65
TOC	150-300	40-65
COLOR	1000-4000	100-250